

Figure C-3

Delineated Area and Impacts

UT PDH 39-1(2)
Sevenmile Gooseberry Road

Legend

- GPS Survey Points
- Sample Locations
- Proposed ROW
- Proposed Edge of Pavement
- Proposed Limits of Construction
- 19+500 Station Locations and Numbers
- Elevation Contours
- Area of Permanent Impact*
- Delineated Areas
- Matchline

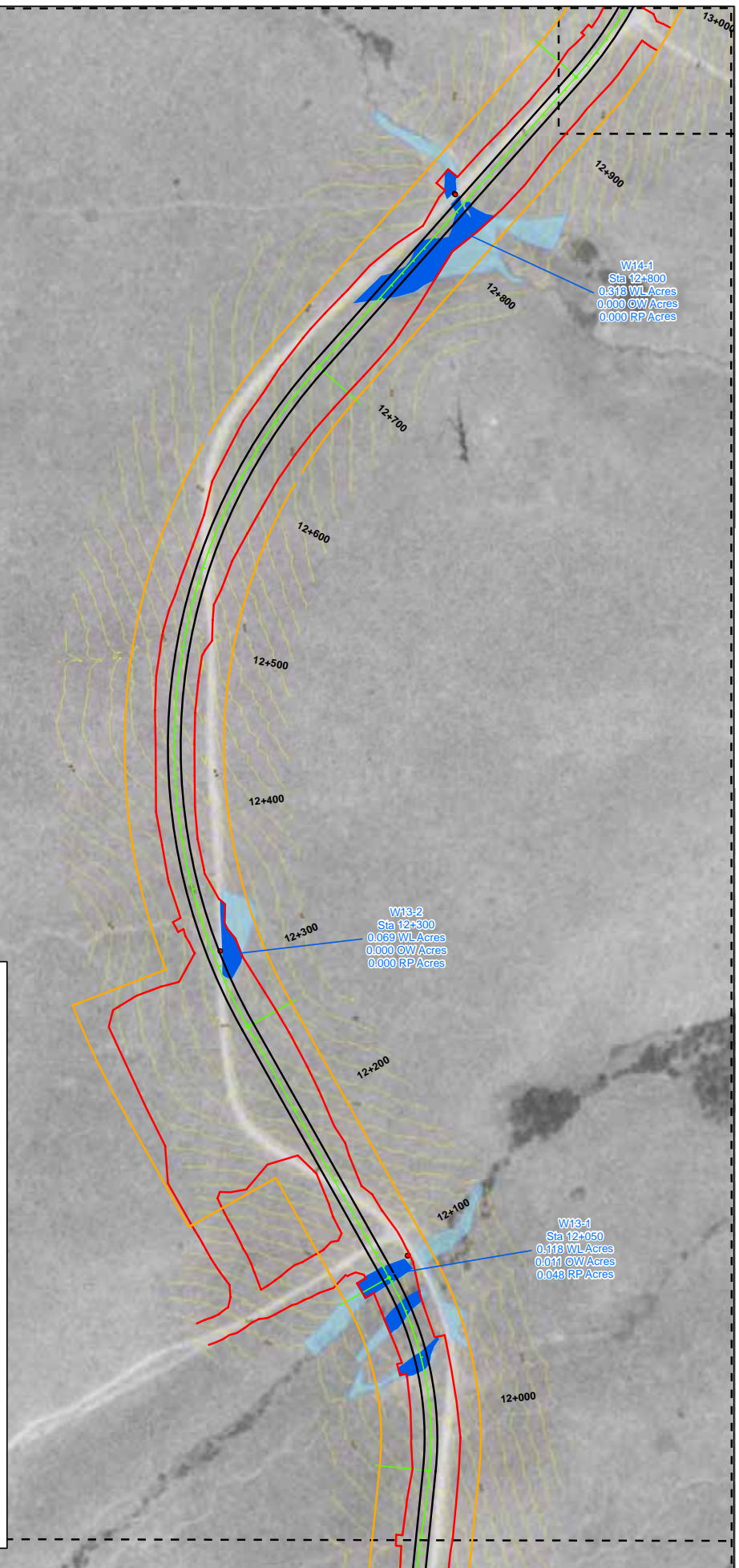
* see label for type and acreage
OW - Open Water
WL - Wetland
RP - Riparian

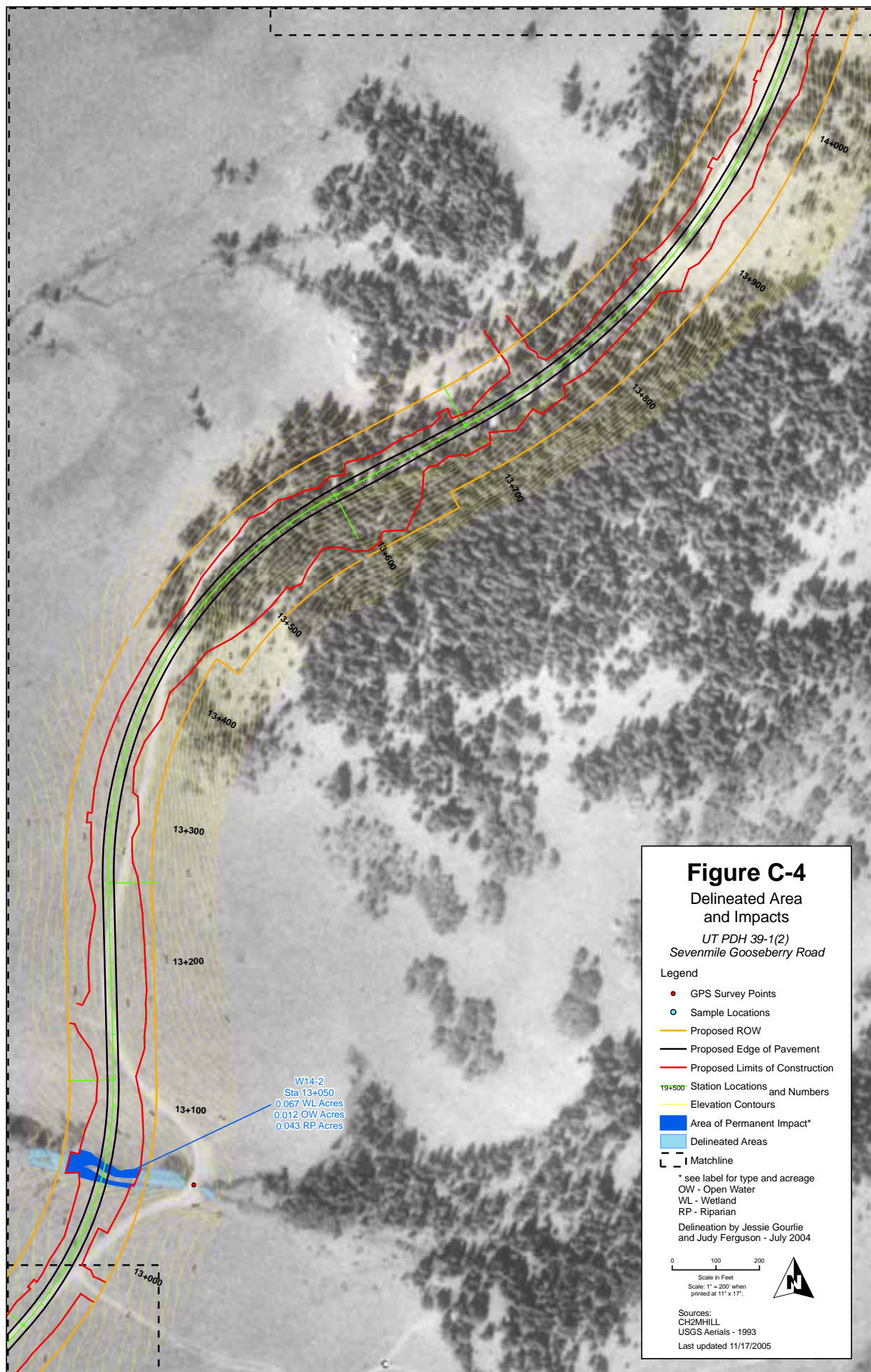
Delineation by Jessie Gourlie
and Judy Ferguson - July 2004

0 100 200
Scale in Feet
Scale: 1" = 200' when
printed at 11" x 17"



Sources:
CH2MHILL
USGS Aerials - 1993
Last updated 11/17/2005





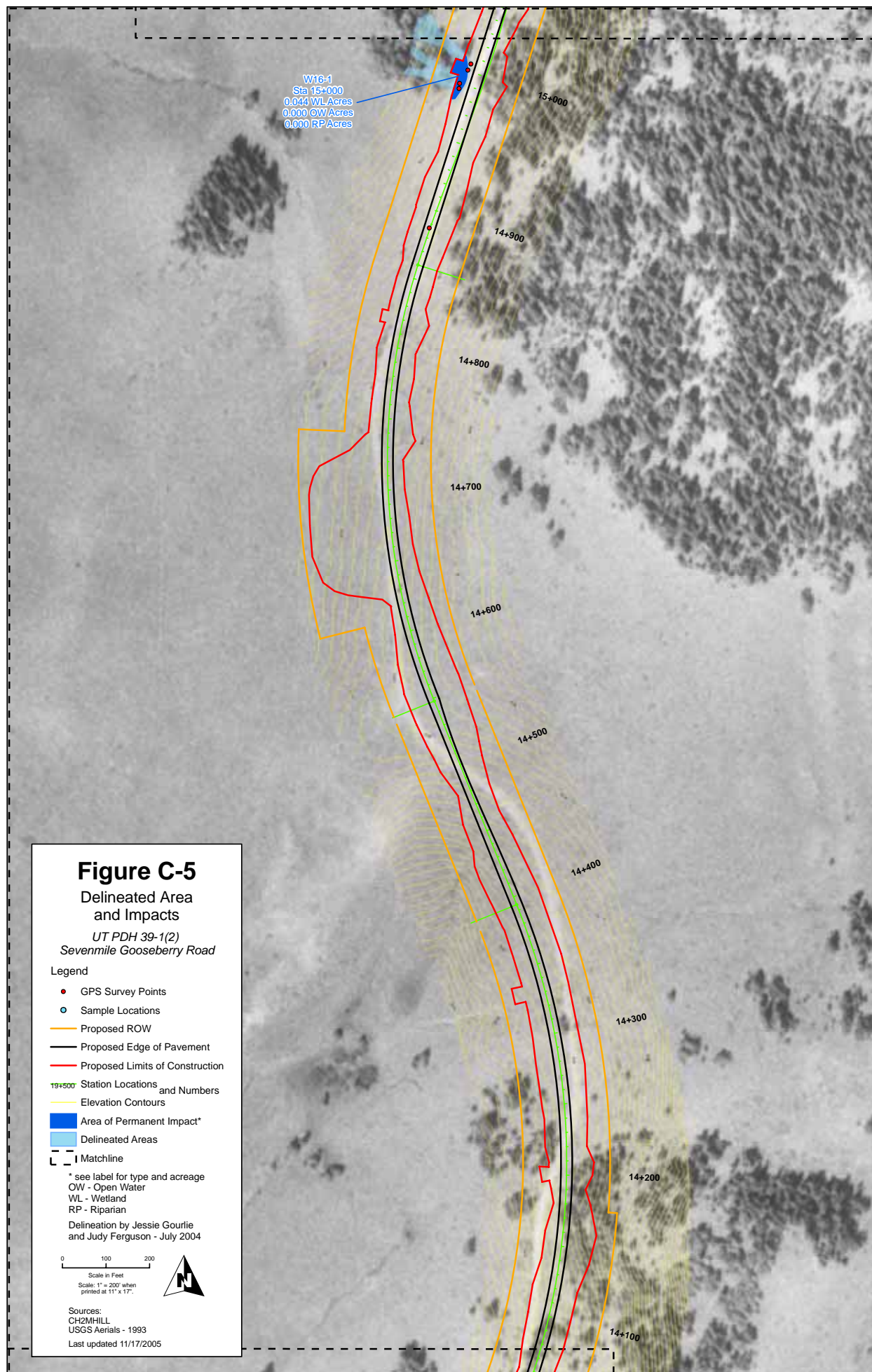


Figure C-6

Delineated Area and Impacts

UT PDH 39-1(2)
Sevenmile Gooseberry Road

Legend

- GPS Survey Points
- Sample Locations
- Proposed ROW
- Proposed Edge of Pavement
- Proposed Limits of Construction
- Station Locations and Numbers
- Elevation Contours
- Area of Permanent Impact*
- Delineated Areas
- Matchline

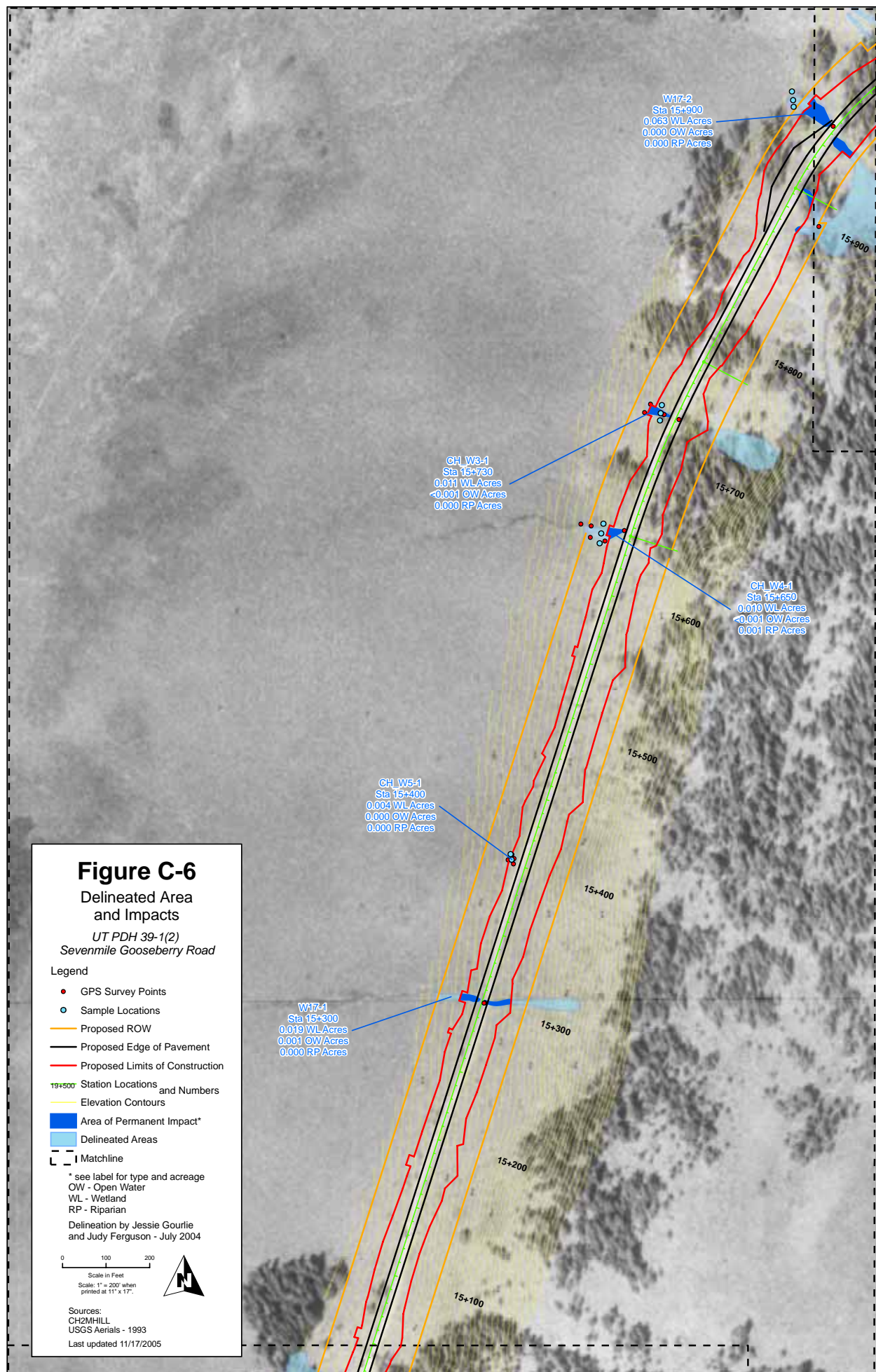
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Delineation by Jessie Gourlie
and Judy Ferguson - July 2004

0 100 200
Scale in Feet
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Sources:
CH2M-HILL
USGS Aerials - 1993
Last updated 11/17/2005



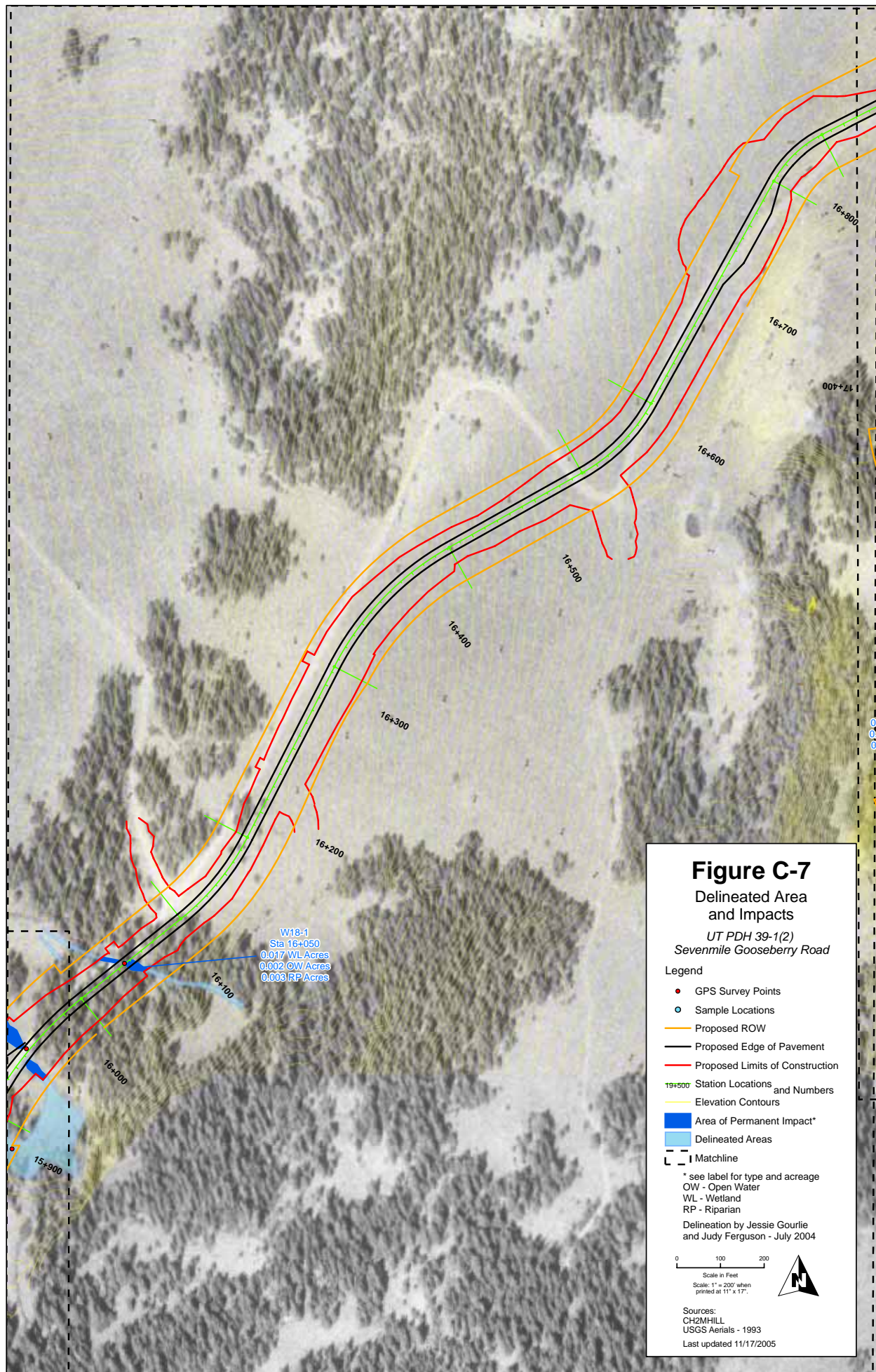


Figure C-8

Delineated Area and Impacts

UT PDH 39-1(2)
Sevenmile Gooseberry Road

Legend

- GPS Survey Points
- Sample Locations
- Proposed ROW
- Proposed Edge of Pavement
- Proposed Limits of Construction
- 17+500 Station Locations and Numbers
- Elevation Contours
- Area of Permanent Impact*
- Delineated Areas
- Matchline

* see label for type and acreage
OW - Open Water
WL - Wetland
RP - Riparian

Delineation by Jessie Gourlie
and Judy Ferguson - July 2004

0 100 200
Scale in Feet
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Sources:
CH2MHILL
USGS Aerials - 1993
Last updated 11/17/2005

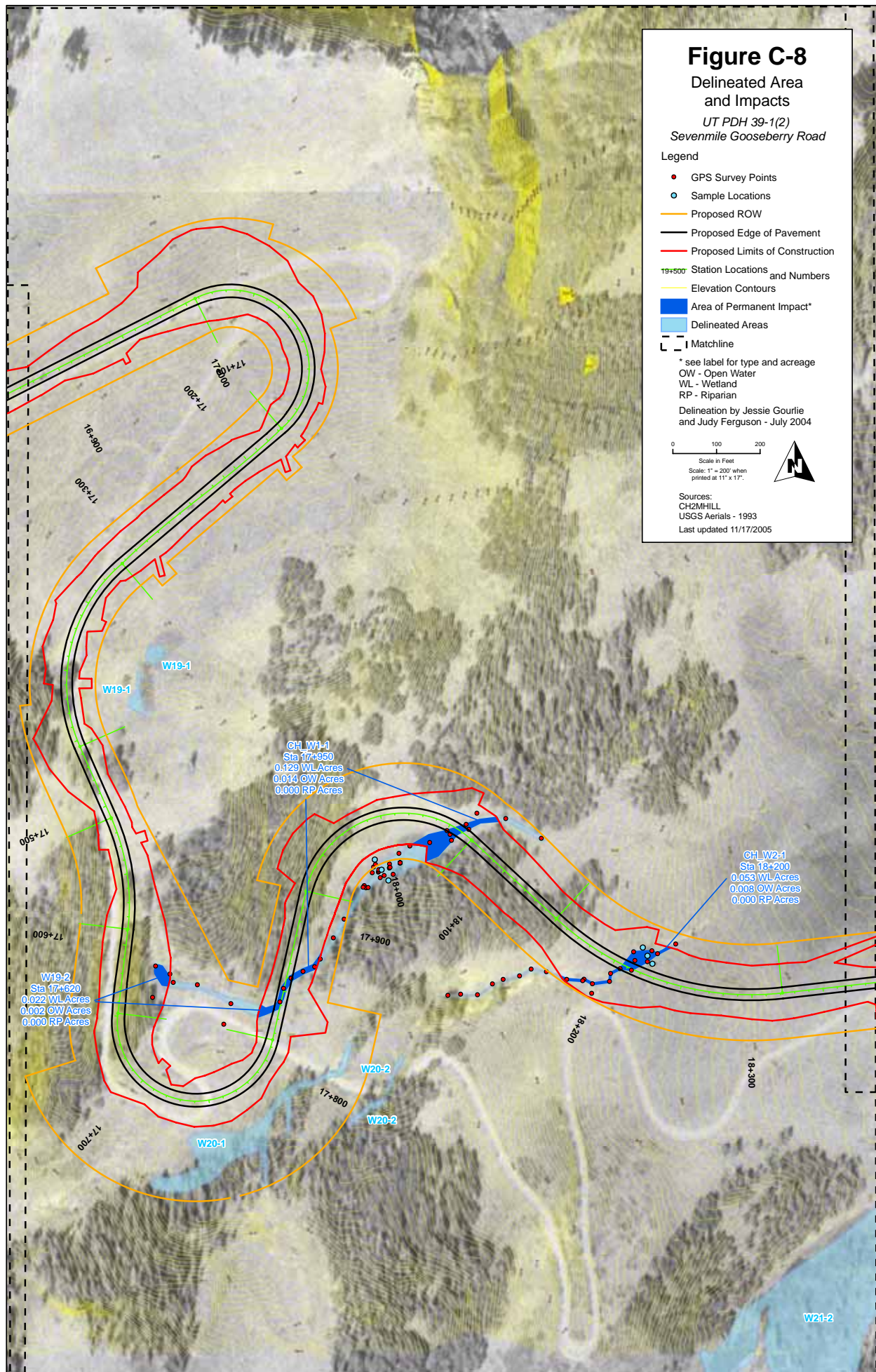


Figure C-9

Delineated Area and Impacts

UT PDH 39-1(2)

Sevenmile Gooseberry Road

Legend

- GPS Survey Points
- Sample Locations
- Proposed ROW
- Proposed Edge of Pavement
- Proposed Limits of Construction
- 19+500 Station Locations and Numbers
- Elevation Contours
- Area of Permanent Impact*
- Delineated Areas
- Matchline

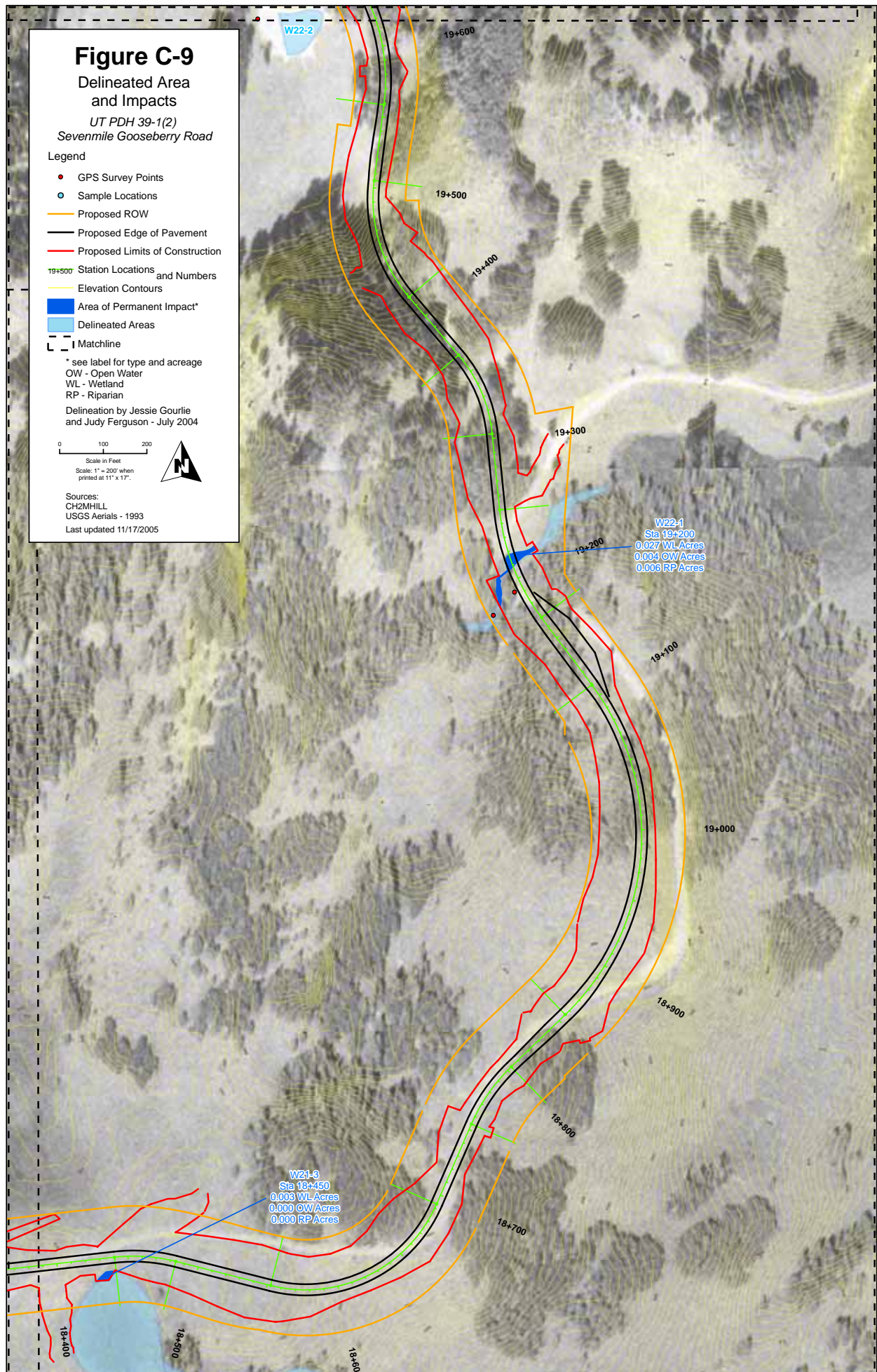
* see label for type and acreage
OW - Open Water
WL - Wetland
RP - Riparian

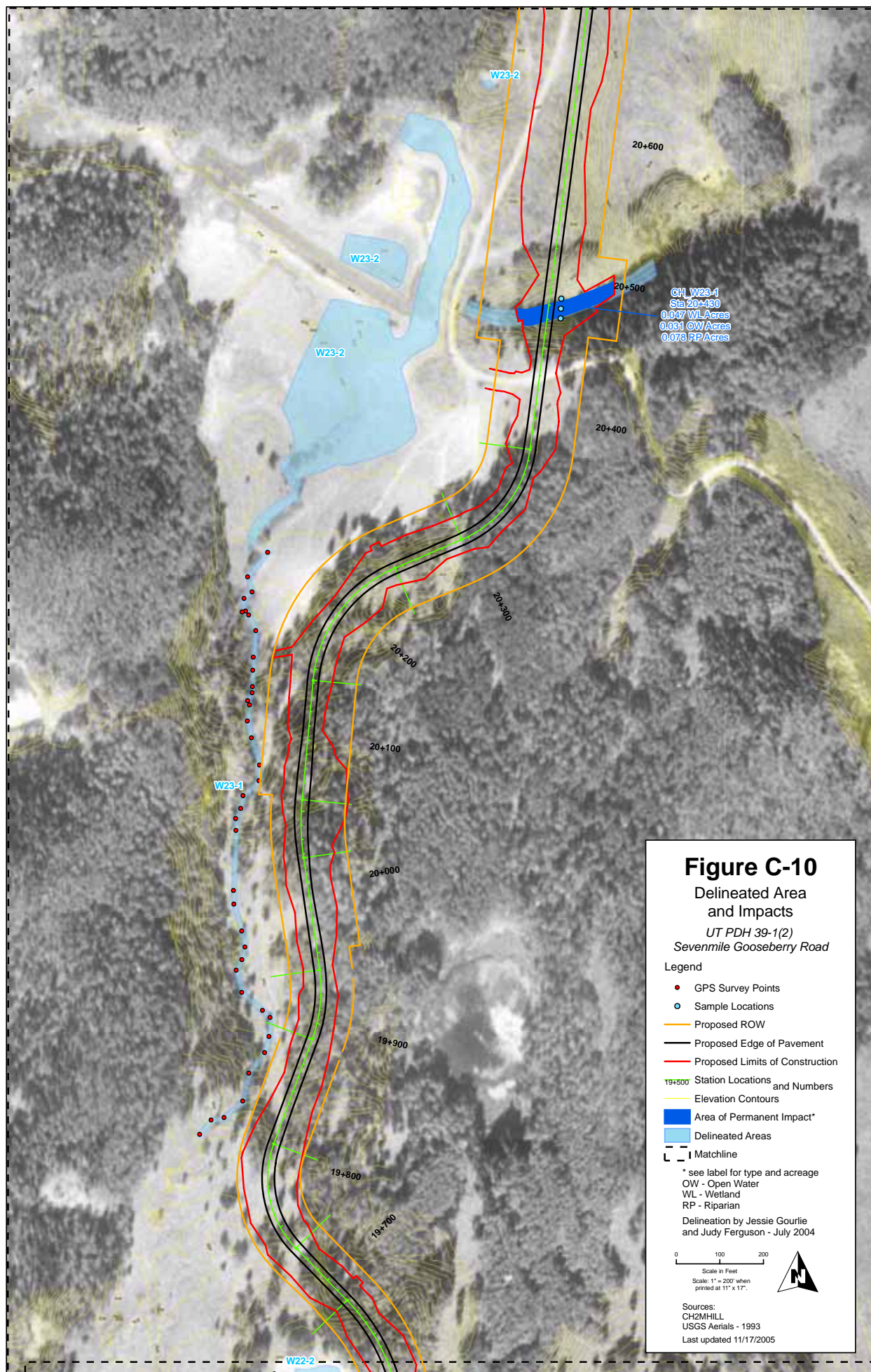
Delineation by Jessie Gourlie
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0 100 200
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Sources:
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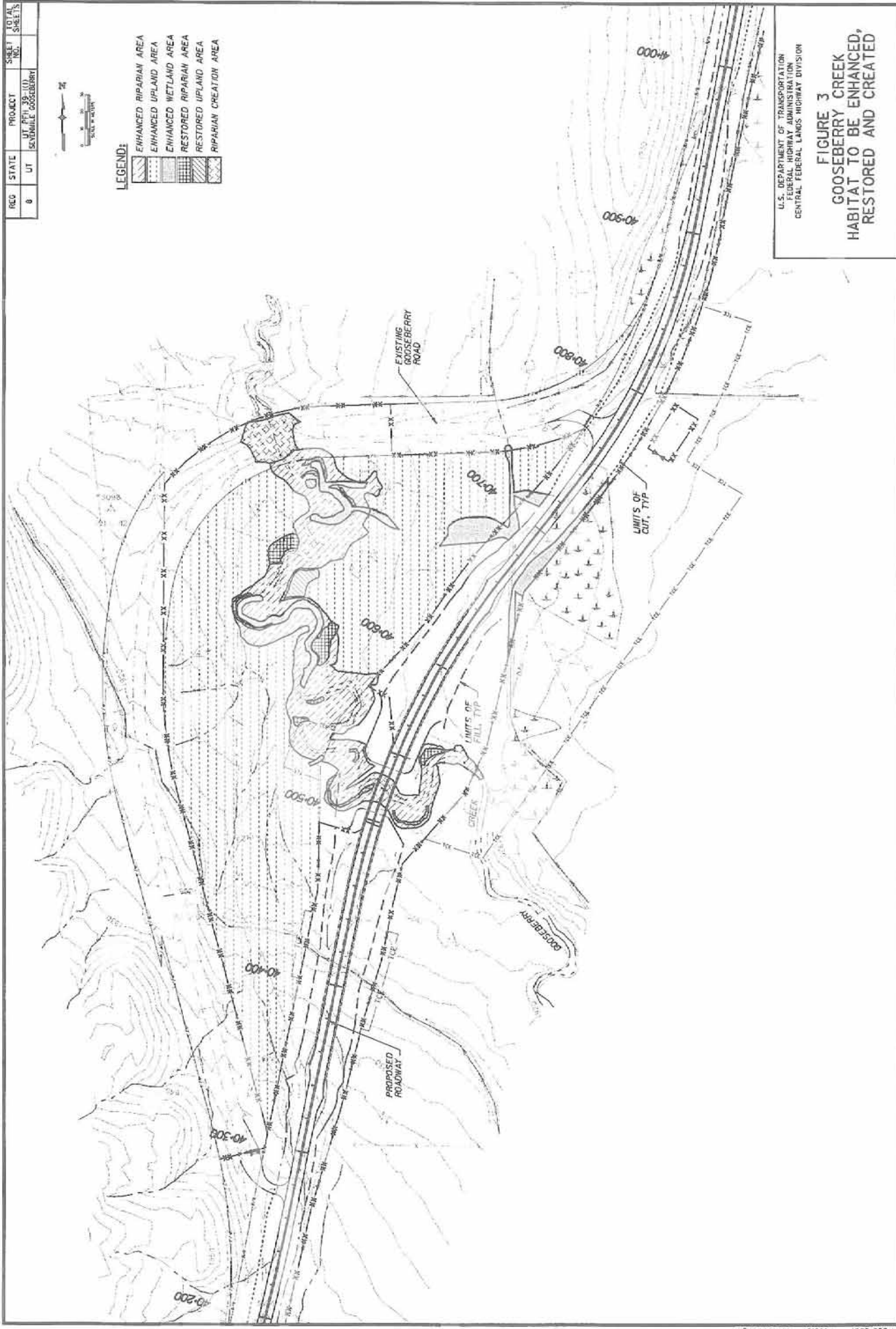


REG	STATE	PROJECT	SHEET	TOTAL
0	UT	UT Fwy 89 (I) SAGUARO GOOSEBERRY	NO.	SHEETS
0	UT			



LEGEND:

- ENHANCED RIPARIAN AREA
- ENHANCED UPLAND AREA
- ENHANCED WETLAND AREA
- RESTORED RIPARIAN AREA
- RESTORED UPLAND AREA
- RIPARIAN CREATION AREA



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

FIGURE 3
GOOSEBERRY CREEK
HABITAT TO BE ENHANCED,
RESTORED AND CREATED

TABLE A-1 (EXHIBIT 4)**Fill Impacts to USACE Jurisdictional Areas within the Sevenmile Gooseberry Road (FH 39) Phase 2 ROW**

Wetland Number	Station Number	Drainage Name/Wetland Designation/ Wetland Type¹	Proposed Filled Surface Area in Non -Wetland Waters of the U.S. (Acres/Linear Feet)	Proposed Filled Surface Area in Wetlands (Acres)	Total Proposed Filled Surface Area in USACE Jurisdictional Areas (Acres/Linear Feet)	Total Proposed Fill Volume in USACE Jurisdictional Areas (Cubic Meters)
W12-1	10+650	Sevenmile Creek Valley Bottom Wetland/PEM	0	0.043	0.043	191.14
R13-1	11+650	Tributary to Sevenmile Creek/Riparian	0.020/138	0	0.020	104.77
R13-3	11+850	Tributary to Sevenmile Creek/Riparian	0.017/115	0	0.017	158.04
W13-1	12+050	Tributary to Sevenmile Creek/High Elevation Stream/SS/PEM	0.011	0.118	0.129	866.62
W13-2	12+300	Lost Creek and Sevenmile Creek Slope Wet Meadows/SS/PEM	0	0.069	0.069	No Fill (Excavation Only)
W14-1	12+800	Lost Creek and Sevenmile Creek Slope Wet Meadows/PEM	0	0.318	0.318	179.18
W14-2	13+050	Lost Creek/High Elevation Stream/SS/PEM	0.012/167	0.067	0.079	1016.36
W16-1	15+000	Tributary to Lost Creek/High Elevation Stream/SS/PEM	0	0.044	0.044	252.85
W17-1	15+300	Lost Creek and Sevenmile Creek Slope Wet Meadows/SS/PEM	0.001/118	0.019	0.020	31.40
CH W5-1	15+400	Lost Creek and Sevenmile Creek Slope Wet Meadows/PEM	0	0.004	0.004	9.37
CH W4-1	15+650	Lost Creek and Sevenmile Creek Slope Wet Meadows/PEM	<0.001/20	0.010	0.010/20	19.80
CH W3-1	15+730	Lost Creek and Sevenmile Creek Slope Wet Meadows/PEM	<0.001/46	0.011	0.011/46	67.24
W17-2	15+900	Lost Creek and Sevenmile Creek Slope Wet Meadows/PEM	0	0.063	0.063	747.73
W18-1	16+050	Tributary to Lost Creek/High Elevation Stream/SS/PEM	0.002/108	0.017	0.019/108	92.88

TABLE A-1 (EXHIBIT 4)**Fill Impacts to USACE Jurisdictional Areas within the Sevenmile Gooseberry Road (FH 39) Phase 2 ROW**

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W19-1	17+400	High Elevation Wetland Basin/PEM	No Impact	No Impact	No Impact	No Impact
W19-2	17+620	Tributary to Niotche Creek/High Elevation Stream/PEM	0.002/230	0.022	0.024/230	323.01
W20-1	17+750	Tributary to Niotche Creek/High Elevation Stream/PEM	No Impact	No Impact	No Impact	No Impact
CH W1-1	17+950	Tributary to Niotche Creek/High Elevation Stream/PEM	0.014/236	0.129	0.143/236	3006.93
CHW 2-1	18+200	Tributary to Niotche Creek /High Elevation Stream/PEM	0.008/279	0.053	0.061/279	1847.74
W20-2	17+800	SS/PEM	No Impact	No Impact	No Impact	No Impact
W21-3	18+450	PEM	0	0.003	0.003	6.56
W22-1	19+200	SS/PEM	0.004/167	0.027	0.031	577.26
W22-2	19+620	SS/PEM	No Impact	No Impact	No Impact	No Impact
W23-1	19+800	PEM/SS	No Impact	No Impact	No Impact	No Impact
W23-2	20+350	PEM	No Impact	No Impact	No Impact	No Impact
CHW23-1	20+430	Unnamed drainage for Salina Reservoir/High Elevation Wetland Basin/FO/SS/PEM	0.031/246	0.047	0.078	2811.89
TOTAL			0.122/2086	1.064	1.186	12310.78

TABLE A-2 (EXHIBIT 5)

Habitat Components and Size to be Provided at the Mitigation Site

Habitat Component	Size Acres
Stream Channel Enhanced	0.32
Riparian Corridor (Minus stream channel) Enhanced	1.73
Wetlands Enhanced	0.54
Uplands Enhanced	5.07
Stream Channel Created	0.01
Riparian Corridor Created	0.17
Riparian Restored	0.12
Uplands Restored	0.05
Total	8.01

Table A-3 (EXHIBIT 6)

Habitats to be Enhanced, Restored, or Created and Suggested Ratios and Mitigation Credits Earned

Habitat	Area Acres	Suggested Ratio	Mitigation Credit Earned Acres
Enhancement			
Wet Meadow	0.54	0.5:1	0.27
Riparian	1.73	0.5:1	0.87
Stream Channel	0.32	0.5:1	0.16
Upland	5.07	0.2:1	1.01
Restoration			
Riparian	0.12	1:1	0.12
Upland	0.05	0.2:1	0.01
Creation			
Riparian corridor	0.17	1:1	0.17
Stream channel	0.01	1:1	0.01
Total			2.69



Photo 1. General Conditions – spruce-fir and aspen.



Photo 2. General Conditions – mixed grassland and sagebrush.



Photo 3. Sagebrush Wetland W12-1 on the right of Sevenmile Gooseberry Road, at the base of aspen stand. It's taken from station 11+000, looking south.



Photo 4. Wetland W19-1 taken from the existing road. This wetland is not impacted.



Photo 5. Wetland CH W1-1 , looking east or southeast.